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(54) **Ink jet recording sheet**

(57) In an ink jet recording sheet including a substrate sheet having a base paper sheet and at least a front polyolefin laminate layer formed on at least a front surface of the base paper sheet, and an ink receiving

layer formed on the front polyolefin laminate layer, the surface of the front polyolefin laminate layer has a center-line mean roughness (Ra) of 0.1 to 10  $\mu\text{m}$ , determined in accordance with JIS B 0601-1982.

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## EUROPEAN SEARCH REPORT

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EP 00 30 9349

DOCUMENTS CONSIDERED TO BE RELEVANT			Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
Category	Citation of document with indication, where appropriate, of relevant passages			
X	EP 0 947 350 A (OJI PAPER) 6 October 1999 (1999-10-06)	1-5	B41M5/00	
Y	* page 4, line 57 - page 5, line 4 *	6-15		
	* page 5, line 38 - line 46 *			
	* page 6, line 3 - line 22 *			
	* page 9, line 48 - line 57 *			
	* page 11, line 4 - line 7 *			
	* page 11, line 18 - line 28 *			
	* page 12, line 53 - line 55 *			
	* page 13, line 6 - line 13 *			
Y	EP 0 298 424 A (ASAHI GLASS) 11 January 1989 (1989-01-11)	10, 12-15		
	* page 3, line 23 - line 34 *			
	* page 5, line 3 - line 11; claims 8, 11 *			
Y	EP 0 507 409 A (ARKWRIGHT) 7 October 1992 (1992-10-07)	6, 7, 11		
	* page 8, line 14 - line 16 *			
	* page 8, line 30 - line 33 *			
	* page 9, line 23 - line 24 *			
	* page 9, line 43 - line 45 *			
Y	EP 0 516 370 A (DAI NIPPON PRINTING) 2 December 1992 (1992-12-02)	8, 9		
	* page 18, line 29 - line 39 *			
	* page 46, line 45 - line 47 *			
The present search report has been drawn up for all claims				
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>4 July 2001</b>	Examiner <b>Magrìzos, S</b>	
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons & : member of the same patent family, corresponding document				

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# ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 30 9349

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The members are as contained in the European Patent Office EDP file on  
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04-07-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 947350 A	06-10-1999	JP 2000094826 A	04-04-2000
		JP 2000052649 A	22-02-2000
		CN 1246561 A	08-03-2000
		JP 11342669 A	14-12-1999
EP 298424 A	11-01-1989	CA 1301562 A	26-05-1992
		DE 3852347 D	19-01-1995
		DE 3852347 T	13-07-1995
		JP 1097678 A	17-04-1989
		JP 8022608 B	06-03-1996
		JP 2605585 B	30-04-1997
		JP 6055829 A	01-03-1994
		JP 2650604 B	03-09-1997
		JP 6048016 A	22-02-1994
		US 4879166 A	07-11-1989
EP 507409 A	07-10-1992	US 5215814 A	01-06-1993
		DE 69213982 D	31-10-1996
		JP 5229248 A	07-09-1993
		US RE34933 E	09-05-1995
EP 516370 A	02-12-1992	JP 4347694 A	02-12-1992
		JP 4347690 A	02-12-1992
		JP 3088780 B	18-09-2000
		JP 6115260 A	26-04-1994
		JP 4353493 A	08-12-1992
		JP 5008556 A	19-01-1993
		JP 6040169 A	15-02-1994
		JP 4279393 A	05-10-1992
		DE 69225836 D	16-07-1998
		DE 69225836 T	18-02-1999
		EP 0819547 A	21-01-1998
		US 5610119 A	11-03-1997
		US 5763356 A	09-06-1998
		US 5318943 A	07-06-1994

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82